

Florida Building Code Edition 2002

High Velocity Hurricane Zone Uniform Permit Application Form.

SECTION A (General Information)

Master Permit Number: _____ Process Number: _____

Contractor's Name: _____

Job Address: _____

ROOF CATEGORY

- | | | |
|--|---|---|
| <input type="checkbox"/> Low Slope | <input type="checkbox"/> Mechanically Fastened Tile | <input type="checkbox"/> Mortar/Adhesive Set Tile |
| <input type="checkbox"/> Asphalt Shingle | <input type="checkbox"/> Metal Panel/Shingles | <input type="checkbox"/> Wood Shingles/Shakes |
| | <input type="checkbox"/> Prescriptive BUR-RAS 150 | |

ROOF TYPE

- | | | | | |
|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------------------------------|
| <input type="checkbox"/> New Roof | <input type="checkbox"/> Re-Roofing | <input type="checkbox"/> Recovering | <input type="checkbox"/> Repair | <input type="checkbox"/> Maintenance |
|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------------------------------|

ROOF SYSTEM INFORMATION

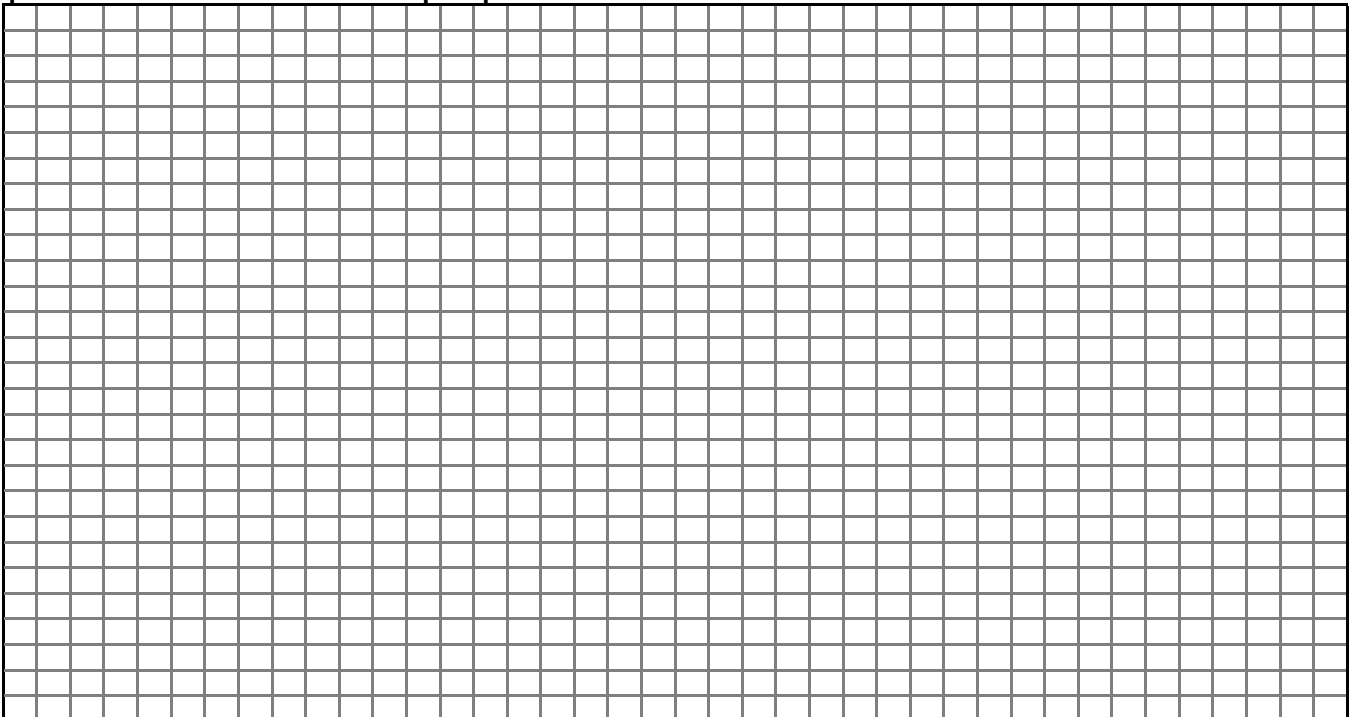
Low Slope Roof Area (S/F)

Steep Slope Roof Area (S/F)

Total (S/F)

ROOF SYSTEM INFORMATION

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers, and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.



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Section c (Low Sloped Roof System)

Fill in Specific Roof Assembly Components and Identify Manufacturer

(If a component is not used, Identify as "N/A")

System Manufacturer: _____

NOA No.: _____

Design Wind Pressures, From RAS 128 or Calculations:

Pmax1: _____ Pmax2: _____ Pmax3: _____

Maximum Design Pressure, From the Specific NOA

System: _____

Deck: _____

Type: _____

Gauge/Thickness: _____

Slope: _____

Anchor/Base Sheet & No of Ply(s): _____

Anchor/Base Sheet Fastener. Bonding Material: _____

Insulation Base Layer: _____

Base Insulation Size & Thickness: _____

Base Insulation Fastener/Bonding Material: _____

Top Insulation Layer: _____

Top Insulation Size and Thickness: _____

Top Insulation Fastener/Bonding Material: _____

Base Sheet(s) & No. of Ply(s): _____

Base Sheet Fastener/Bonding Material: _____

Ply Sheet(s) & No. of Ply(s): _____

Ply Sheet Fastener/Bonding Material: _____

Top Ply: _____

Top Ply Fastener/Bonding Material: _____

Surfacing: _____

Fastener Spacing for Anchor/Base Sheet Attachment

Field _____ " oc @ Lap, # Rows _____ @ _____ " oc

Perimeter _____ " oc @ Lap, # Rows _____ @ _____ " oc

Corner _____ " oc @ Lap, # Rows _____ @ _____ " oc

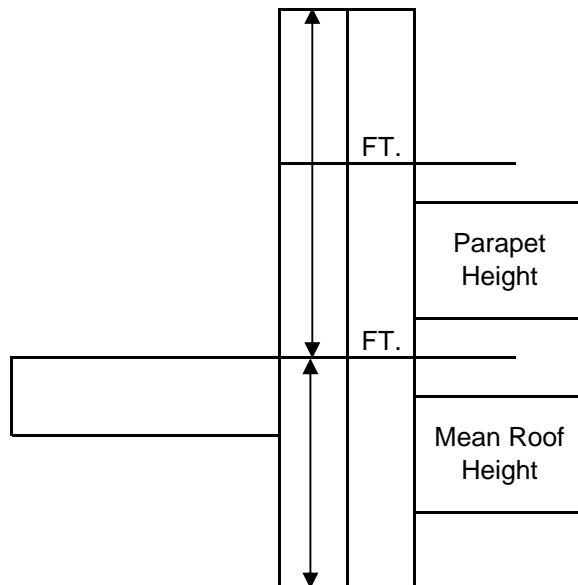
Number of Fasteners Per Insulation Board

Field _____ Perimeter _____ Corner _____

Illustrate Components Noted and Details as Applicable:

Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counter-Flashing, Coping, Etc.

Indicate: Mean Roof Height, Parapet Height, Height of Base Flashing, Component Material, Material Thickness, Fastening Type, Fastener Spacing or Submit Manufacturers Details that Comply with RAS 111 and Chapter 16.



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Section D (Steep Slope Roof System)

Roof System Manufacturer: _____

Notice of Acceptance Number: _____

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):

P1: _____ P1: _____ P1: _____

Maximum Design Pressure (From the NOA Specific System): _____

Method of Tile Attachment: _____

Steep Slope Roof System Description

Deck Type:

Type Underlayment:

Insulation:

Fire Barrier:

Fastener Type & Spacing:

Adhesive Type:

Type Cap Sheet:

Roof Covering:

Type & Size Drip Edge:

Roof Slope:

_____ : 12

Ridge Ventilation?

Mean Roof Height:

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Section D (Steep Slope Roof System)

Roof System Manufacturer: _____

Notice of Acceptance Number: _____

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):

P1: _____ P1: _____ P1: _____

Maximum Design Pressure (From the NOA Specific System): _____

Method of Tile Attachment: _____

Steep Slope Roof System Description

Deck Type:

Type Underlayment:

Insulation:

Fire Barrier:

Fastener Type & Spacing:

Adhesive Type:

Type Cap Sheet:

Roof Covering:

Type & Size Drip Edge:

Roof Slope:

_____ : 12

Ridge Ventilation?

Mean Roof Height:

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Section E (Tile Calculations)

For Moment based tile systems, choose wither Method 1 or 2. Compare the values for M_r , with the values from M_r . If the M_r values are greater than or equal to the M_r values, for each area of roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

(P1: _____ X l: _____ equals _____) minus Mg: _____ equals Mr1: _____ NOA Mr _____
 (P2: _____ X l: _____ equals _____) minus Mg: _____ equals Mr1: _____ NOA Mr _____
 (P3: _____ X l: _____ equals _____) minus Mg: _____ equals Mr1: _____ NOA Mr _____

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From below: _____ NOA Mr _____

Mr Required Moment Resistance*

Mean Roof Height Roof Slope →	15'	20'	25'	30'	40'
2:12	30.7	33.4	35.7	37.7	40.7
3:12	28.7	31.3	33.4	35.2	38.1
4:12	26.6	28.9	30.9	32.6	35.2
5:12	24.5	26.7	28.5	30.0	32.5
6:12	22.5	24.5	26.2	27.6	29.8
7:12	20.8	22.6	24.1	25.4	27.5

* Must be used in conjunction with a list of moments based tile system endorsed by the Broward County Board of Rules and Appeals.

For Uplift based tile system use Method 3. Compared the values for F' with the values for F_r . If the F' value are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 3 "Uplift Based Tile Calculations Per RAS 127"

(P1: _____ X l: _____ equals _____ X w: _____ equals _____) minus W: _____ X cos q: _____ equals Fr1: _____ NOA F' _____
 (P2: _____ X l: _____ equals _____ X w: _____ equals _____) minus W: _____ X cos q: _____ equals Fr1: _____ NOA F' _____
 (P3: _____ X l: _____ equals _____ X w: _____ equals _____) minus W: _____ X cos q: _____ equals Fr1: _____ NOA F' _____

Where to Obtain Information

DESCRIPTION	SYMBOL	WHERE TO FIND
Design Pressure	P1, P2 or P3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	q	Job Site
Aerodynamic Multiplier	l	NOA
Restoring Moment due to Gravity	Mg	NOA
Attachment Resistance	Mr	NOA
Required Moment Resistance	Mr	Calculated
Minimum Attachment Resistance	F'	NOA
Required Uplift Resistance	Fr	Calculated
Average Tile Weight	W	NOA
Tile Dimensions	l = length w = width	NOA

All calculations must be submitted to the Building Official at the time of permit application.

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Section E (Tile Calculations)

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Method 1 "Moment Based Tile Calculations Per RAS 127"

(P1: _____ X l _____ equals _____) minus Mg: _____ equals Mr1 _____ NOA Mf _____
 (P2: _____ X l _____ equals _____) minus Mg: _____ equals Mr1 _____ NOA Mf _____
 (P3: _____ X l _____ equals _____) minus Mg: _____ equals Mr1 _____ NOA Mf _____

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From below: _____ NOA M_f _____

M_r Required Moment Resistance*

Mean Roof Height Roof Slope →	15'	20'	25'	30'	40'
2:12	30.7	33.4	35.7	37.7	40.7
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 (P2: _____ X l: _____ equals _____ X w: _____ equals _____) minus W: _____ X cos q: _____ equals Fr1: _____ NOA F' _____
 (P3: _____ X l: _____ equals _____ X w: _____ equals _____) minus W: _____ X cos q: _____ equals Fr1: _____ NOA F' _____

Where to Obtain Information

DESCRIPTION	SYMBOL	WHERE TO FIND
Design Pressure	P1, P2 or P3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	q	Job Site
Aerodynamic Multiplier	l	NOA
Restoring Moment due to Gravity	Mg	NOA
Attachment Resistance	M_f	NOA
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	NOA
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	W	NOA
Tile Dimensions	l = length w = width	NOA

All calculations must be submitted to the Building Official at the time of permit application.